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Space Science and Engineering Laboratory
Office for Remote Sensing of Earth Resources
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Co-directors:
G. J. McMurtry
G. W. Petersen

December 27, 1972

ERTS Program Manager
Coder ER, NASA Headquarters
Washington, D.C. 20546

Dear Sir:

In accordance with Article II of contract number NAS5-23133 covering the proposal, "Interdisciplinary Applications and Interpretations of ERTS Data within the Susquehanna River Basin: Resource Inventory, Land Use and Pollution", dated April 1971 (NASA Control Nos. Y-39009-212 and SR082), this letter is the Type I Progress Report covering the period August 1-October 1 1972.

The first ERTS imagery for an early August pass was received during this period. The Principal Investigator attended the briefing at GSFC on September 29 and while there, visited the browse facility with the scientific monitor, Dr. Harold Mathews. Imagery from the September 6 flight was viewed at that time. As a result of this visit, it was determined that the standing order should be changed so that ORSER (Office for Remote Sensing of Earth Resources) would receive imagery for both bands 5 and 7 instead of just band 7 as originally requested. This change in standing order was submitted directly through the browse facility on September 29, 1972. At the same time, a Data Request Form for retrospective data was submitted.

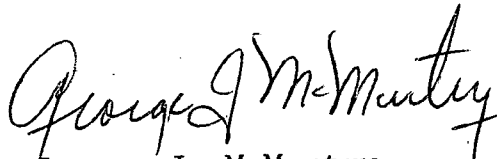
During the period covered by this report, photography from C-130 flights in July and U-2 flights in April and June was received. A cataloging and storing system was developed and implemented for all forms of imagery including ERTS. This system includes cross-references to overlapping data from other collection sources as well as detailed information for the particular imagery received.

(E72-10329) INTERDISCIPLINARY
APPLICATIONS AND INTERPRETATIONS OF ERTS
DATA WITHIN THE SUSQUEHANNA RIVER BASIN:
G.J. McMurtry (Pennsylvania State Univ.)
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No computer compatible tapes were received and consequently no computer processing of ERTS data was performed. However, several new pattern classifiers were programmed during this period and tested using aircraft remotely sensed MSS data that was available from other sources. Two preprocessing techniques were also programmed and comparative tests were run using different preprocessing and classification combinations.

Although no specific results could be reported for this period due to lack of data, ORSER is prepared to receive and process ERTS data in both image and digital format.

Sincerely,



George J. McMurtry
GSFC Ident.No.UN159

GJM/jch

cc: P. Ebaugh
H. Mathews (Scientific Monitor)
E. Szajna (Technical Monitor)
ERTS Contracting Officer
ERTS Technical Officer